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 TI Solubility-improving agent for powdery **cement** additive and
cement additive composite using it
 IN Tobori, Etsuo; Hosoda, Takaaki; Tsuda, Hitoshi
 PA Lion Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C04B014-28
 ICS C04B020-12; C04B024-26; C04B103-40
 CC 58-1 (Cement, Concrete, and Related Building Materials)
 Section cross-reference(s): 38

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CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2000191350	ICM	C04B014-28
	ICS	C04B020-12; C04B024-26; C04B103-40
JP 2000191350	ECLA	C04B020/10B

AB The title agent comprises CaCO₃ powder which is treated with an organic compound having amino group or quaternary ammonium group (preferably, **cationic polymer**) and then with an organic compound having anion group (preferably, anionic surfactant). Also claimed is the title composite composed of a mixture of the agent and powdery **cement** additives. The composite is well dispersed and easily dissolved in **cement** slurry, and high-strength **concrete** without cracks can be formed.

ST calcium carbonate soly improving agent **cement** additive;
cationic polymer treatment calcium carbonate
cement additive; anionic surfactant treatment calcium carbonate
cement additive

IT **Cement** (construction material)
 (additive; surface-treated CaCO₃ powder as solubility-improving agent for
 powdery **cement** additive)

IT **Concrete** modifiers
 Dispersing agents